

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082643 A1

(51) International Patent Classification⁷: **B60C 7/22, 9/18**

(21) International Application Number:
PCT/IT2004/000347

(22) International Filing Date: 15 June 2004 (15.06.2004)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
TO2004A 000120 27 February 2004 (27.02.2004) IT

(71) Applicant (for all designated States except US): **FIAT
AUTO S.P.A.** [IT/IT]; Corso Giovanni Agnelli, 200,
I-10135 Torino (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RE FIORENTIN,
Stefano** [IT/IT]; Corso Adriatico, 347/4E, I-10095

Grugliasco (IT). **PALAZZETTI, Mario** [IT/IT]; Via
Valpiana, 14/A, I-10051 Avigliana (IT). **MONFRINO,
Giovanni** [IT/IT]; Strada Miravalle, 24/D, I-10024 Mon-
calieri (IT).

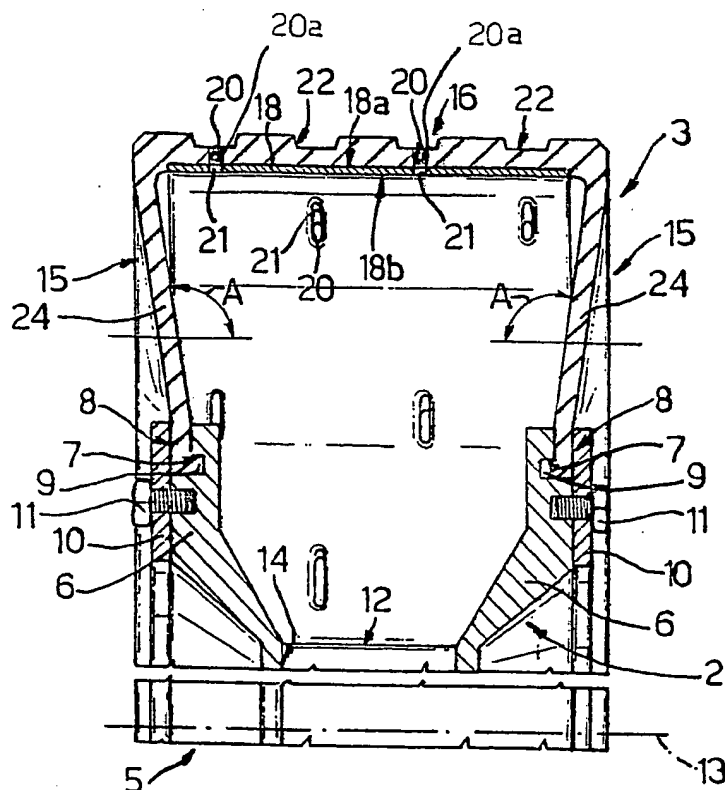
(74) Agents: **JORIO, Paolo** et al.; c/o Studio Torta S.r.l., Via
Viotti, 9, I-10121 Torino (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **TYRE FOR VEHICLES, IN PARTICULAR MOTOR VEHICLES**



(57) Abstract: A tyre (3) for vehicles which does not require pressurisation by means of a pressurised fluid has a tread (16), two sidewalls (15), and two beads (8) which are attached to a wheel rim (2) made of elastomer material, and is provided with at least one tubular reinforcement body (18) which is associated with the tread; each of the sidewalls having a respective homogeneous resilient annular membrane (24), a straight generatrix of which forms an angle (A) other than 90° with the axis (13) of the tyre (3); the membranes (24) being stretched radially between the tread (16) and the beads (8) such as to be pre-tensioned in the absence of external loads acting on the tyre (3).

WO 2005/082643 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.